Notice of Allowability	Application No.	Applicant(s)
	10/064,391	BENSON ET AL.
	Examiner	Art Unit
	Robert Hodge	1746
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to 7/9/04.		
2. A The allowed claim(s) is/are 1-10.		
3. X The drawings filed on <u>09 July 2002</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 1/13/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Da 08), 7. ☑ Examiner's Amendo	te

Application/Control Number: 10/064,391 Page 2

Art Unit: 1746

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-10, drawn to a method of generating electrical energy, classified in class 429, subclass 17.
- II. Claims 11-18, drawn to a fuel cell apparatus, classified in class 429, subclass 12.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the method of generating electrical energy could be used to operate the fuel cell apparatus of claim group II, but the fuel cell apparatus of claim group II can be operated by different methods including manually operating the system by an operator.
- 3. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II nor for Group III, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with Anton Hopen on 2/2/05 a provisional election was made without traverse to prosecute the invention of group I, claims 1-10. Affirmation of this election must be made by applicant in replying to this Office action.

Art Unit: 1746

Claims 11-18 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- 7. This application is in condition for allowance except for the presence of claims 11-18 to a fuel-cell apparatus, which is non-elected without traverse. Accordingly, claims 11-18 have been cancelled.
- 8. The following is an examiner's statement of reasons for allowance:
- 9. The prior art made of record does not disclose a method of generating oxygen from the reaction of an oxygenated salt with water and a catalyst in combination with a separate reaction for generating hydrogen, wherein the generated gases are supplied to the anode and cathode respectively of a fuel cell. The prior art does allow for the

Application/Control Number: 10/064,391 Page 4

Art Unit: 1746

generation of hydrogen alone that is then provided to the anode and air is used on the cathode side in order for the reaction to occur. The prior art also allows for the generation of oxygen alone that is then provided to the cathode chambers of a metal fuel cell, wherein the anodes are made from a metal that will react with the oxygen and thus be consumed. And there is no motivation for one of ordinary skill in the art to combine the separate concepts since they are not even related to the same type of fuel cells.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. U.S. Patent No. 3,825,445 to MacCarthy teaches reacting peroxide with a catalyzed salt to form hydrogen which is provided to the anode of a fuel cell
 - b. U.S. Patent No. 4,317,863 to Struthers teaches a metal/air fuel cell where oxygen is generated from hydrogen peroxide and provided to the cathode chambers

Application/Control Number: 10/064,391 Page 5

Art Unit: 1746

c. U.S. Pre-Grant Publication No. 2002/0037452 to Schmidt teaches different chemical compositions for the production of hydrogen, which can be use in fuel cells

- d. U.S. Patent No. 6,689,711 to Lefebvre teaches mixing potassium hydroxide with various metals in a storage vessel, which then generates hydrogen and is provided to the anode of a fuel cell
- e. U.S. Patent No. 6,849,356 to Dow et al. teaches an anolyte comprising a sodium hydroxide and seawater mixture and a catholyte consisting of a hydrogen peroxide solution

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Hodge whose telephone number is (571) 272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL BARR SUPERVISORY PATENT Electric